



## 心电图报告

宠物名字:  
霞霞

登记人:  
张女士

进行检测的医院/医师:	上海安加商王珊珊	检测日期	2020-09-29 12:15:00	物种	猫
年龄	0岁3个月	性别	F	品种	British Shorthair
体重(公斤)	1.20 kg	绝育	未绝育		

## 总结

这是一个为霞霞进行的快速心电检测 (Ax)。

霞霞的临床观察或症状输入

快速检测 (高风险族群) (Ax):

心脏听诊:

心杂音等级

没有或无法检测到杂音

心律失常

没有或不明确

临床症状

没有临床症状

霞霞的心跳速率正常, 为每分钟**226**下(最小: 25, 最大: 287)。

心节律是不规则(Irregular)。

P波与P-R间期正常, 代表心房去极化及窦房结至房室结的电流传导正常。

检测显示QRS波群(即心室收缩时间)的宽度正常, 代表心室去极化正常。

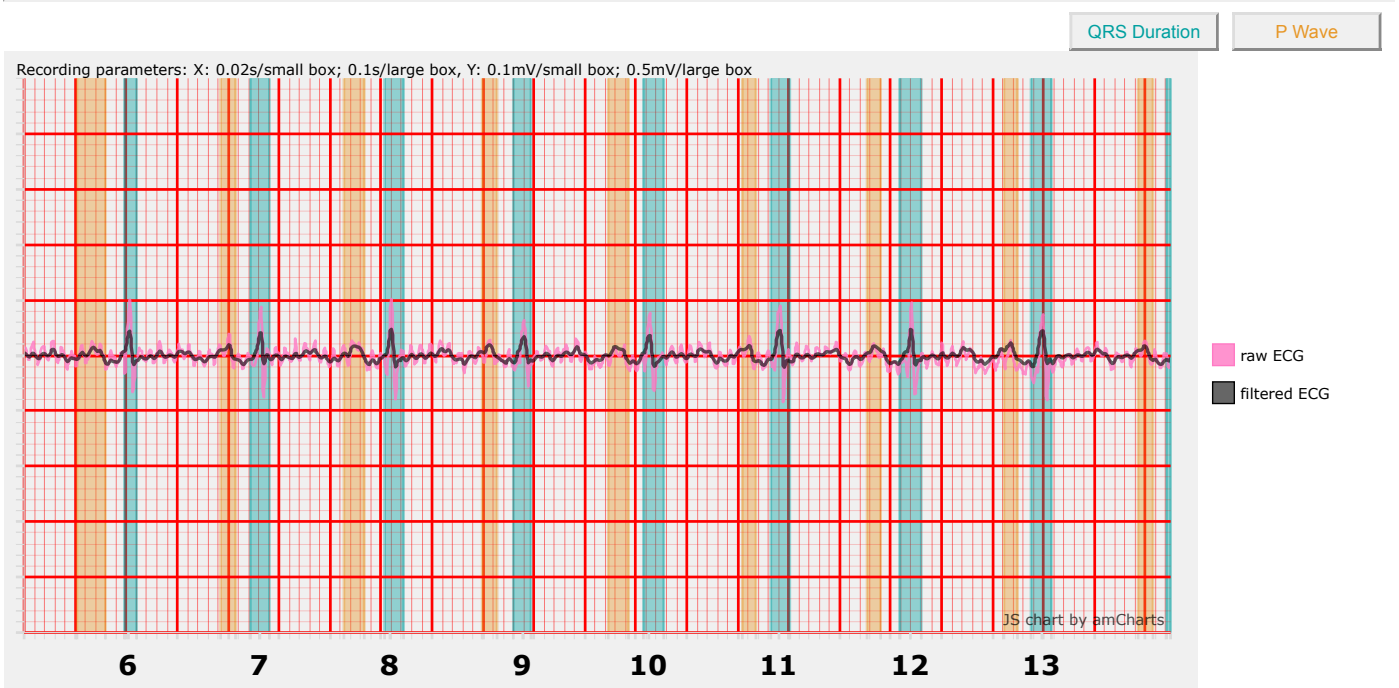
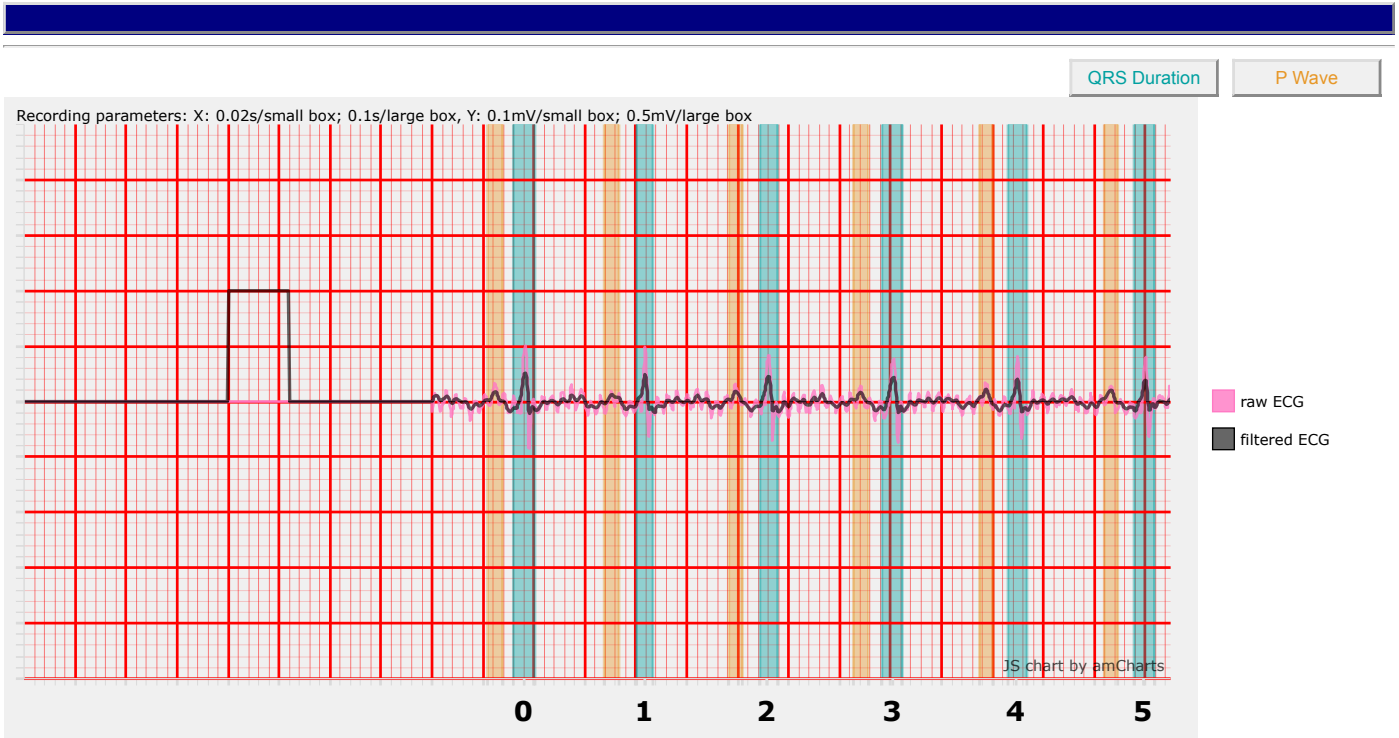
P及R波的波幅在正常范围。

判读:

霞霞有正常窦性心律(Normal Sinus Rhythm)。

导联部份: Standard Lead II (标准 Lead II)

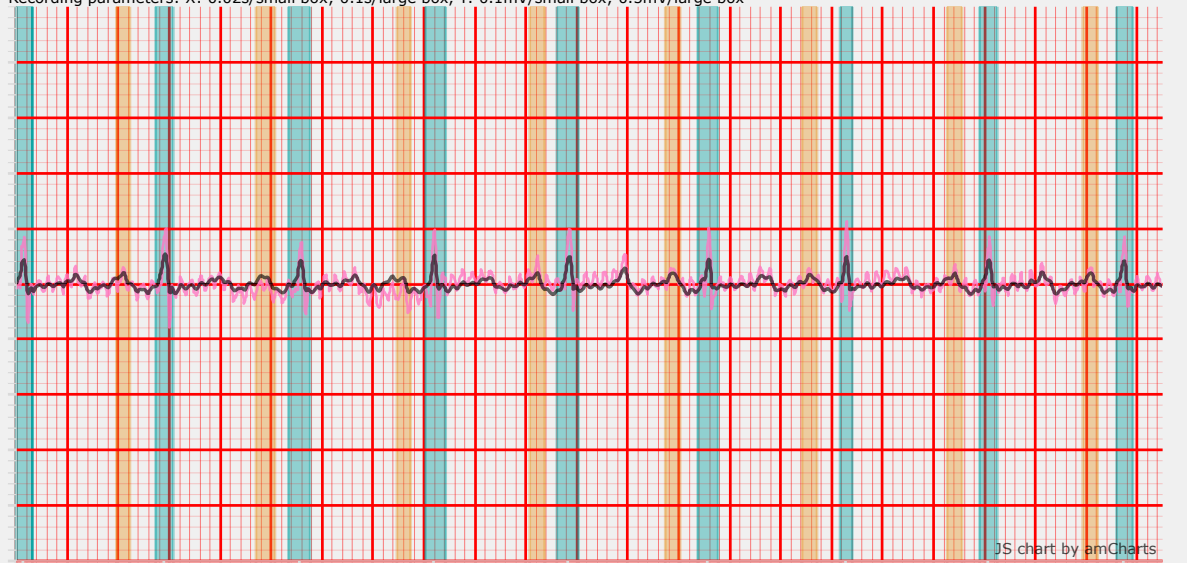
# 心电图描记



QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



raw ECG  
filtered ECG

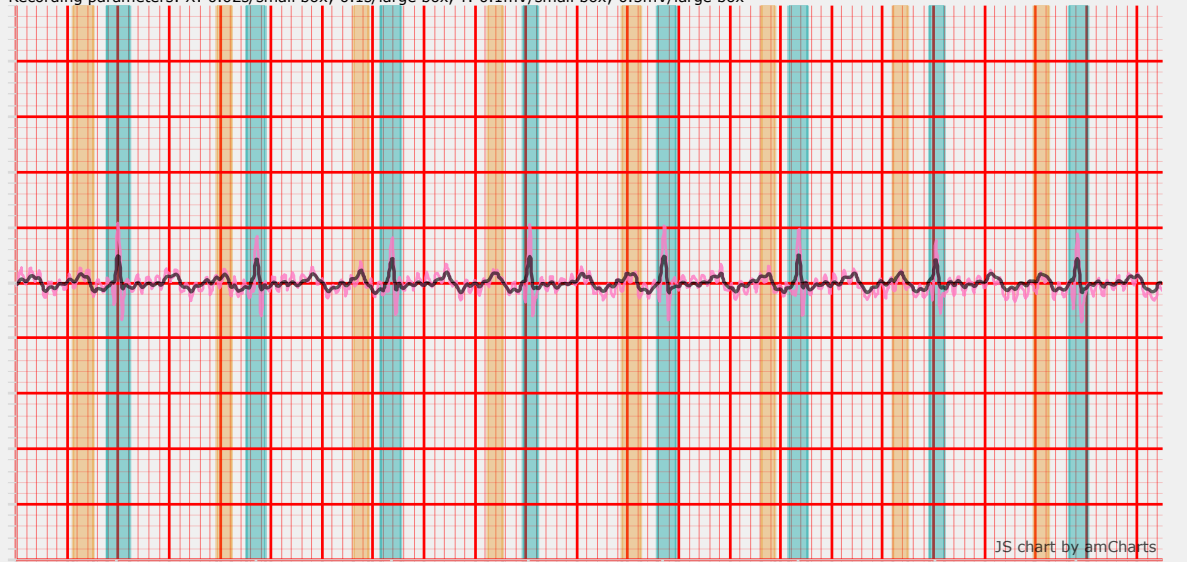
14 15 16 17 18 19 20 21 22

JS chart by amCharts

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



raw ECG  
filtered ECG

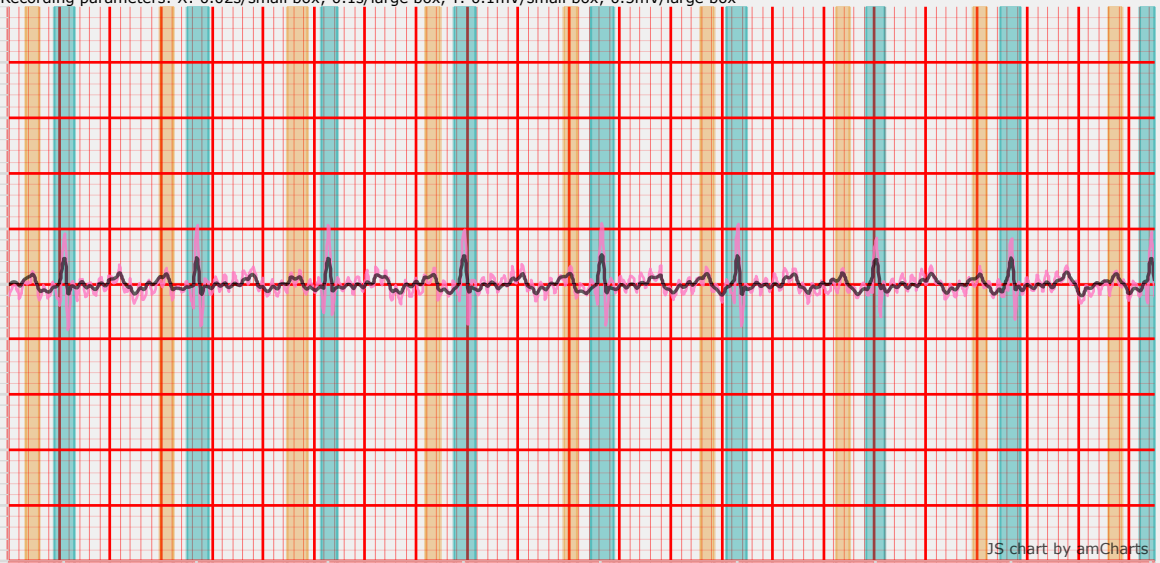
23 24 25 26 27 28 29 30

JS chart by amCharts

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



raw ECG  
filtered ECG

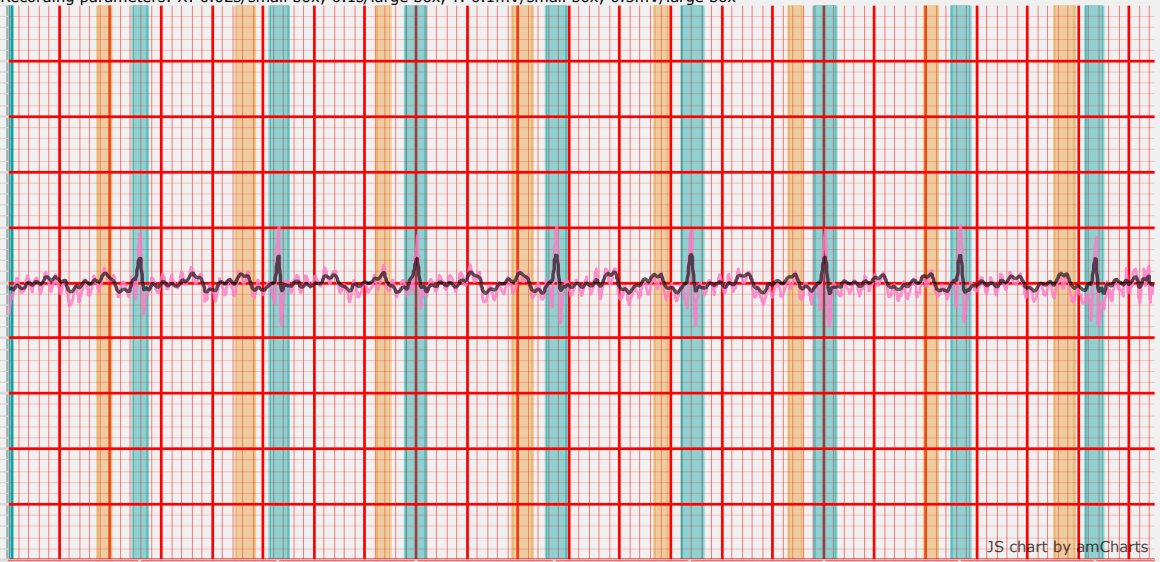
JS chart by amCharts

31 32 33 34 35 36 37 38 39

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



raw ECG  
filtered ECG

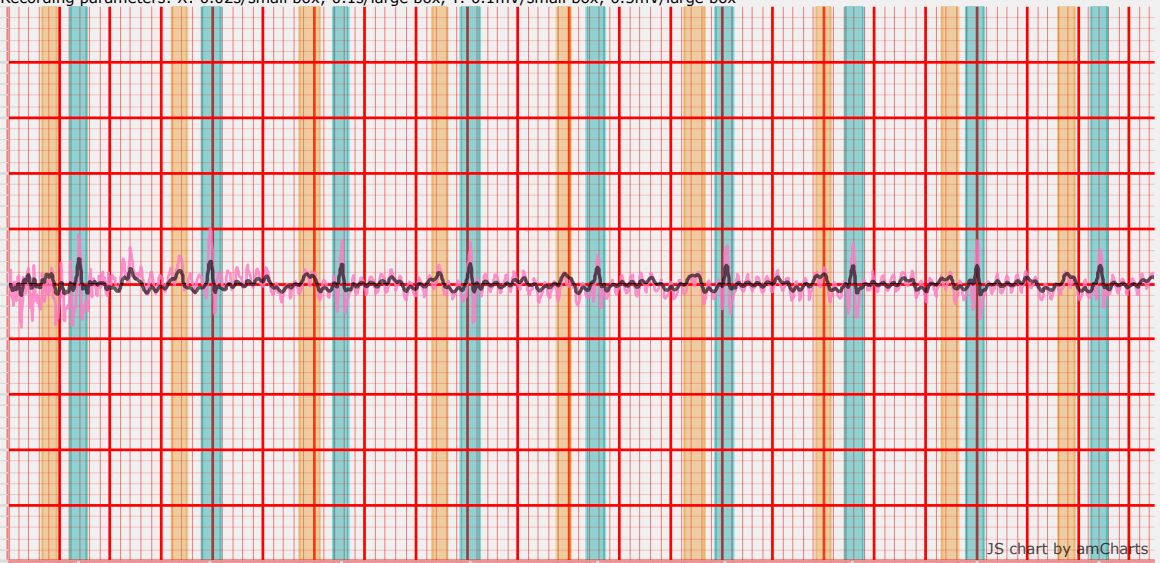
JS chart by amCharts

40 41 42 43 44 45 46 47

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



raw ECG  
filtered ECG

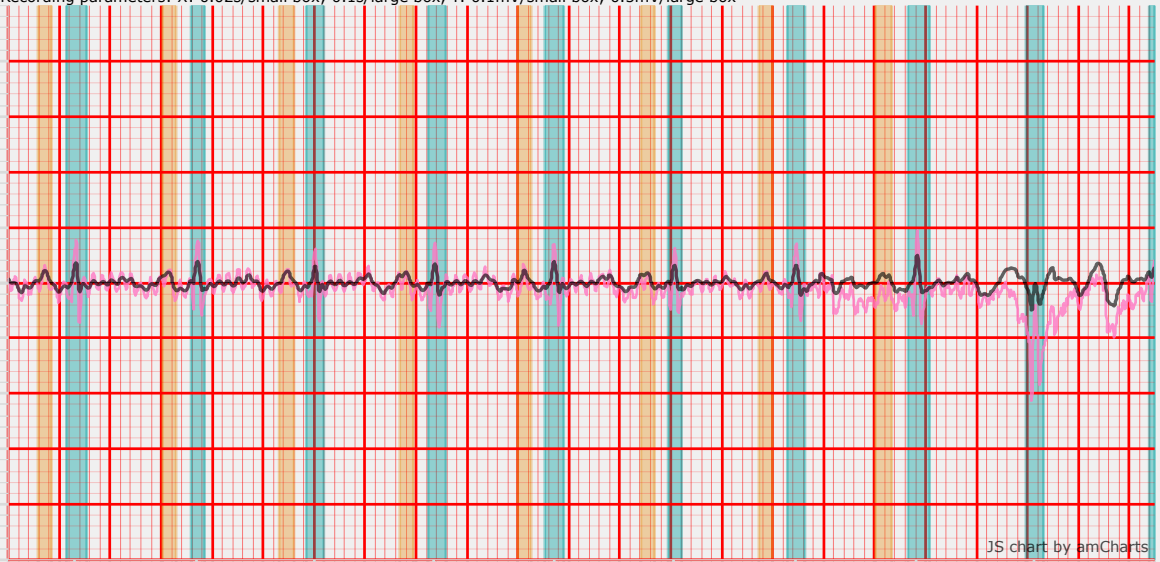
JS chart by amCharts

48 49 50 51 52 53 54 55 56

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



raw ECG  
filtered ECG

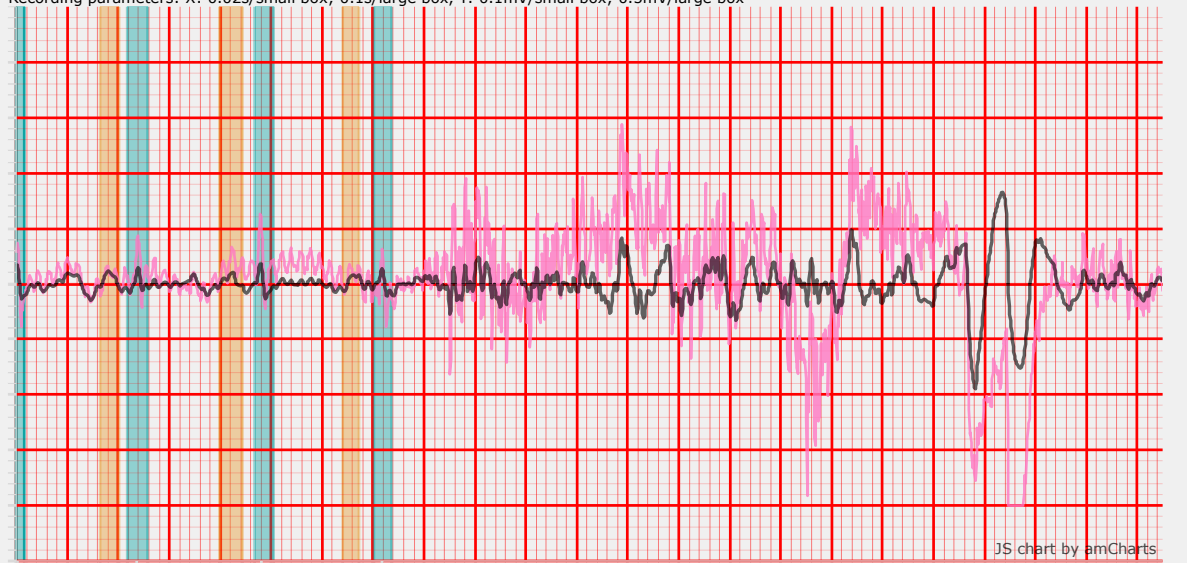
JS chart by amCharts

57 58 59 60 61 62 63 64 65

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box

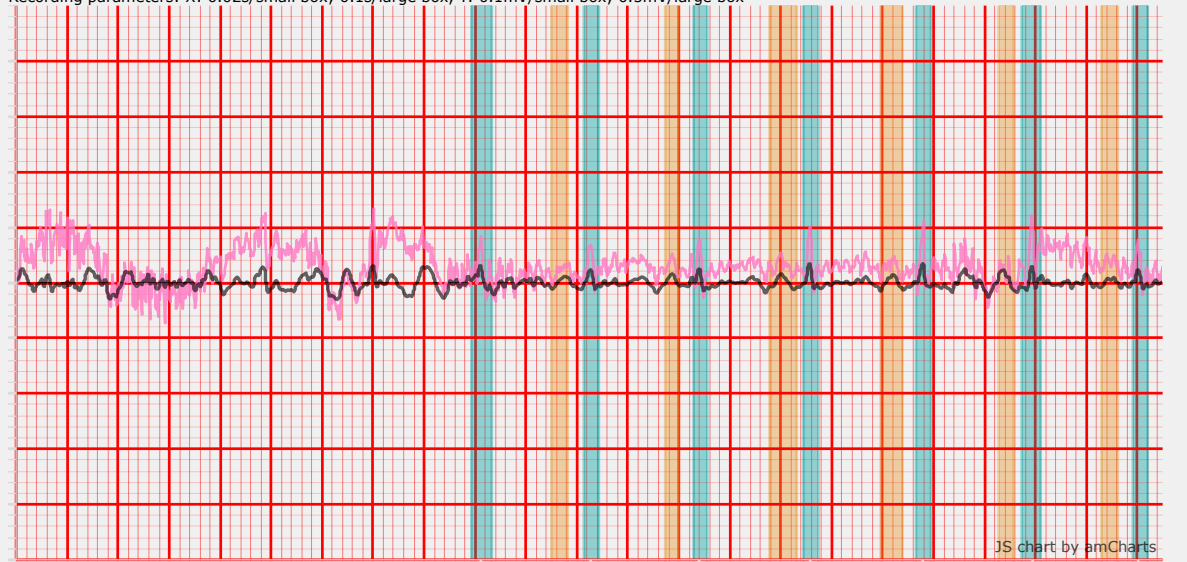


66 67 68 69

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box

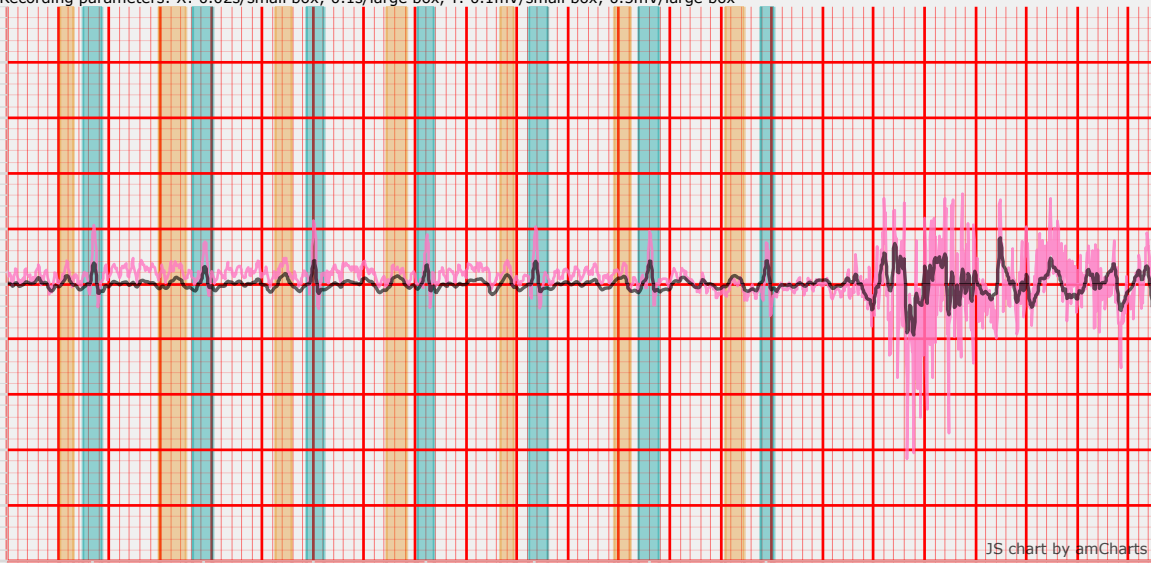


70 71 72 73 74 75 76

QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



77

78

79

80

81

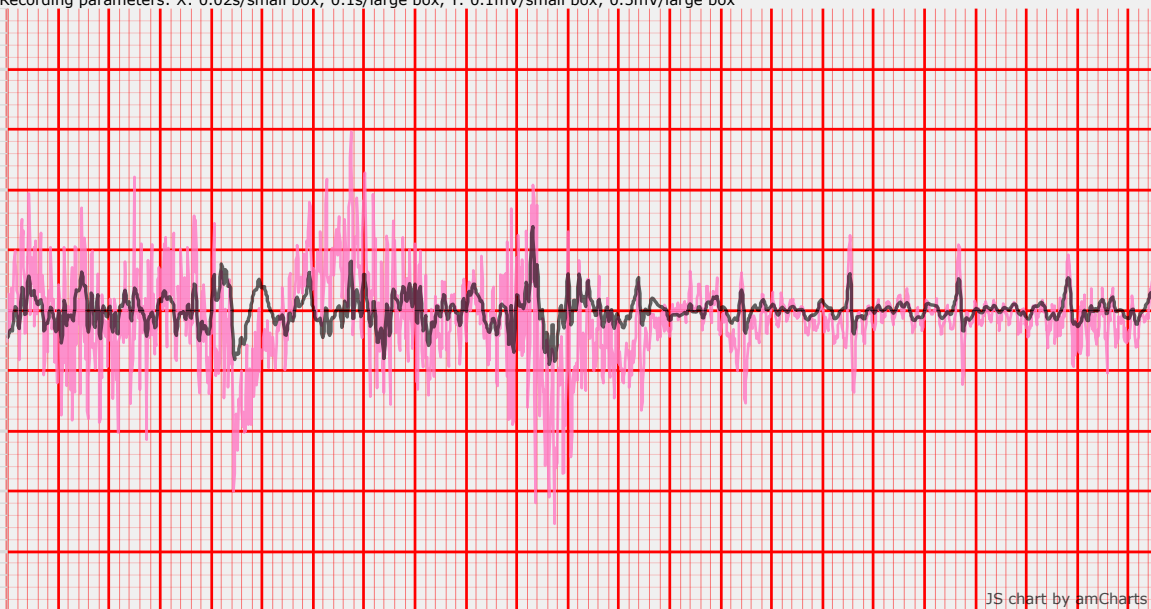
82

83

QRS Duration

P Wave

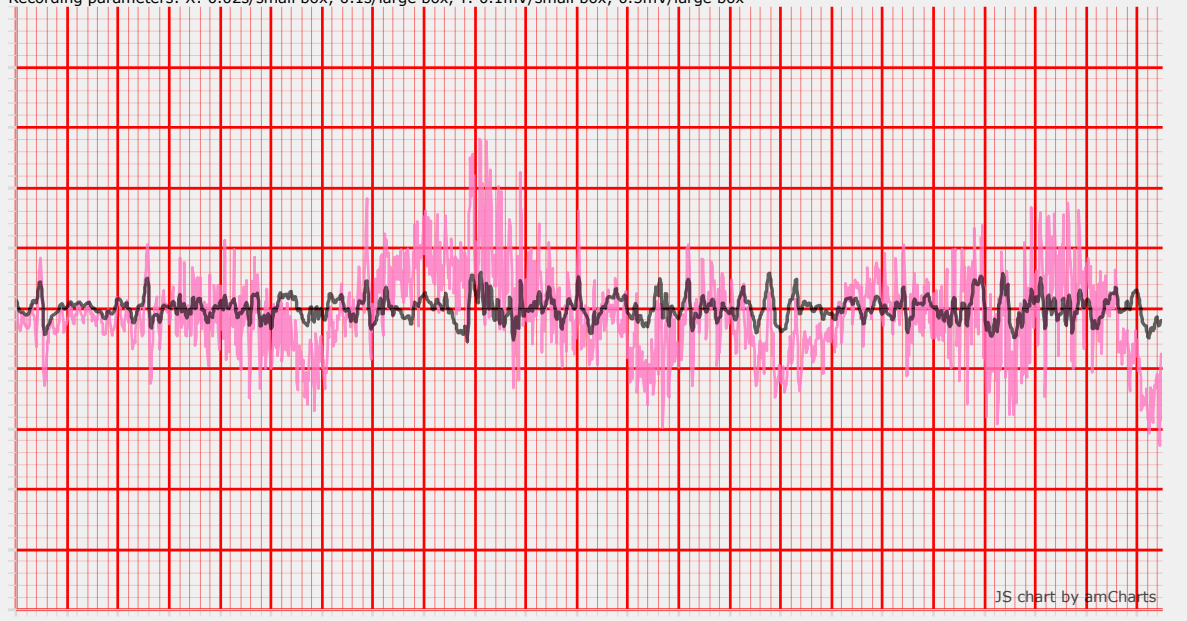
Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



QRS Duration

P Wave

Recording parameters: X: 0.02s/small box; 0.1s/large box, Y: 0.1mV/small box; 0.5mV/large box



raw ECG

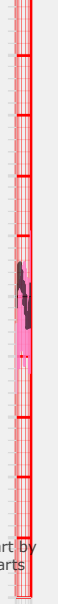
filtered ECG

JS chart by amCharts

QRS Duration

P Wave

Record



raw ECG

filtered ECG

art by arts



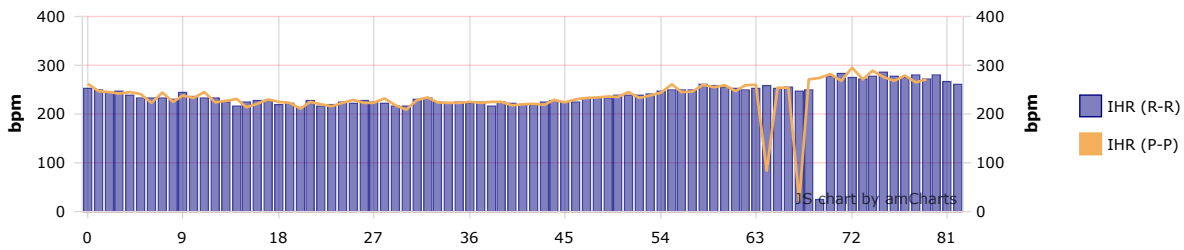
# 心跳速率

心跳速率: 226 bpm (最小: 25, 最大: 287)  
平均即时心跳速率: 238 bpm  
心跳次数: 84  
时间: ~22.20875s

正常猫心电图参数参考[Tilley, 1992]

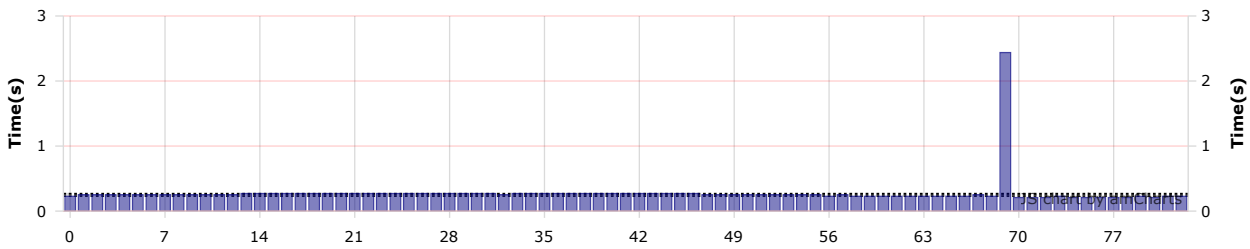
心跳速率  
Cat 140 to 240 BPM

## 即时心跳速率



## 心节律

心节律是不规则(Irregular)。

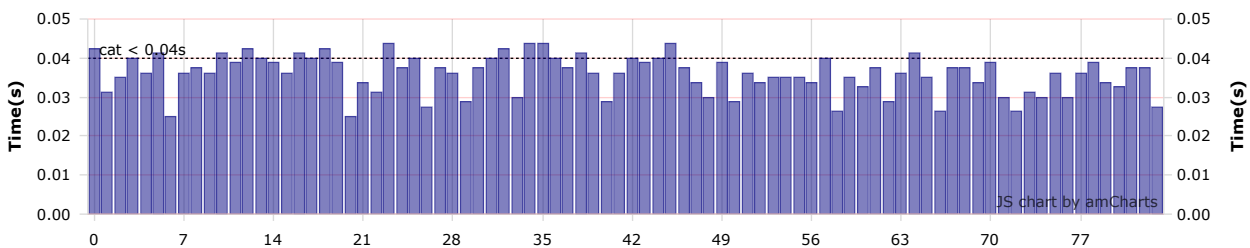


## QRS波群分析

平均QRS时间: 0.036秒

正常猫心电图参数参考[Tilley, 1992]

QRS duration  
Cats:  $\leq 0.04s$

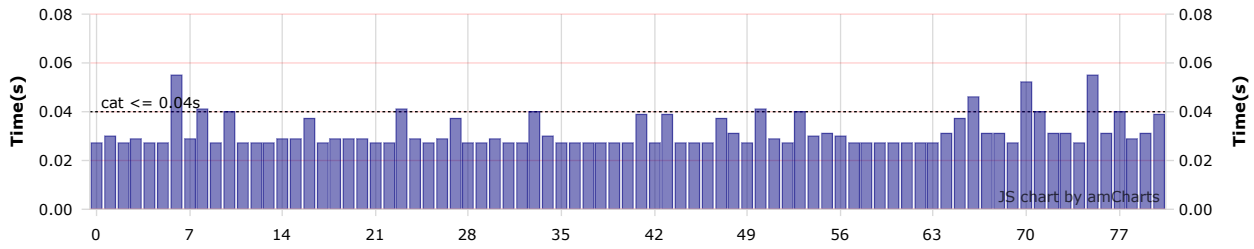


## P波分析

平均P波时间: 0.032秒

### 正常猫心电参数参考[Tilley, 1992]

Normal P wave width  $\leq 0.04s$ . [Tilley, 1992]

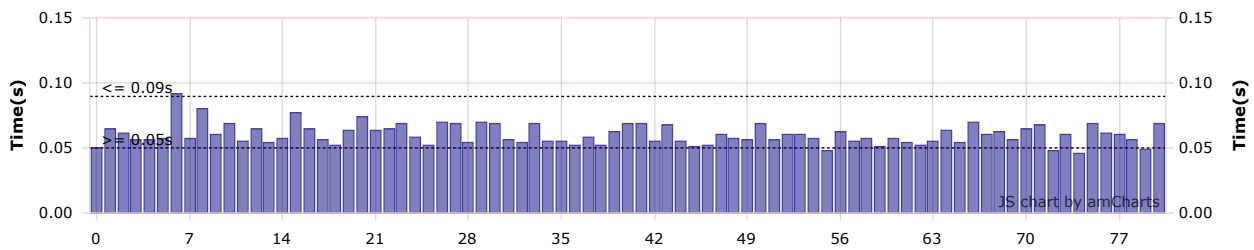


## PR分析

平均PR间距时间: 0.060秒

### 正常猫心电参数参考[Tilley, 1992]

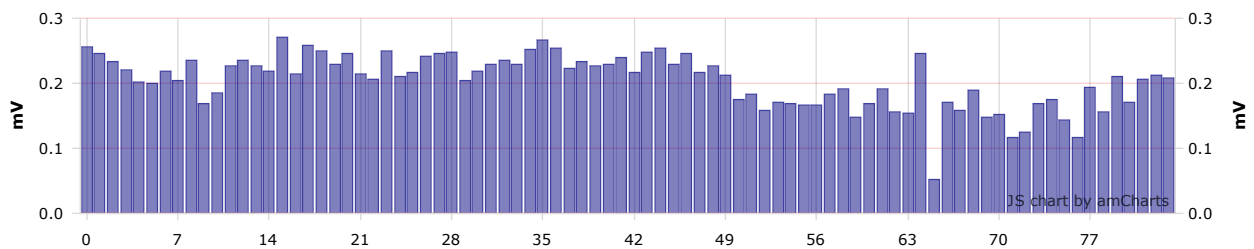
Normal PR interval: 0.05 to 0.09s.



## 波幅分析

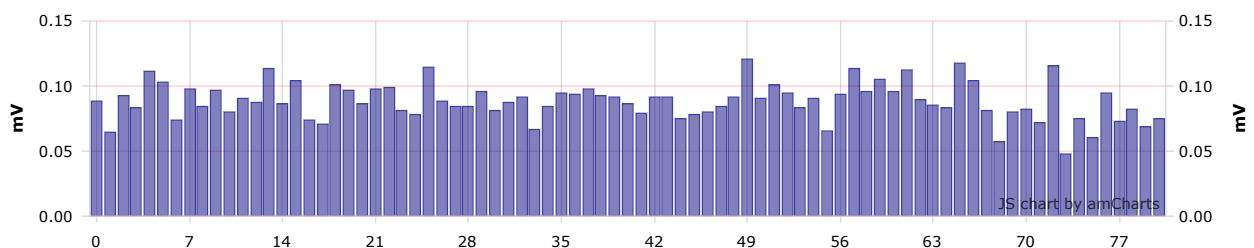
R波的平均波幅: 0.210 mV

(标准: < 0.9 mV)



P波的平均波幅: 0.088 mV

(标准: < 0.2 mV)



## 参考文献

- Tilley, 1992 - L.P. Tilley (1992) *Essentials of Canine and Feline Electrocardiography: Interpretation and Treatment*, 3rd edn, Lea & Febiger.
- Jones & Estrada, 2014 - Ashley Jones, Amara Estrada (2014) *Top 5 Arrhythmias in Dogs & Cats*